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APPLICATION NO.	F	TLING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/613,017	07/07/2003		Yutaka Yoshida	D-1485	6922
20985	7590	03/14/2005		EXAMINER	
FISH & RI		•	PATEL, RAJNIKANT B		
12390 EL CAMINO REAL SAN DIEGO, CA 92130-2081				ART UNIT	PAPER NUMBER
				2838	
				DATE MAILED: 03/14/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)				
		10/613,017	YOSHIDA, YUTAKA				
	Office Action Summary	Examiner	Art Unit				
		Rajnikant B. Patel	2838				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
THE I - Exter after - If the - If NO - Failu Any r	ORTENED STATUTORY PERIOD FOR REPL MAILING DATE OF THIS COMMUNICATION. nsions of time may be available under the provisions of 37 CFR 1.1 SIX (6) MONTHS from the mailing date of this communication. period for reply specified above is less than thirty (30) days, a repl period for reply is specified above, the maximum statutory period re to reply within the set or extended period for reply will, by statute eply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be a y within the statutory minimum of thirty (30) di will apply and will expire SIX (6) MONTHS fro , cause the application to become ABANDON	timely filed ays will be considered timely. m the mailing date of this communication. IED (35 U.S.C. § 133).				
Status							
1)⊠	Responsive to communication(s) filed on <u>07 July 2003</u> .						
2a) <u></u> □	This action is FINAL . 2b)⊠ This	action is non-final.					
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims							
5)□ 6)⊠ 7)□	Claim(s) 1-13 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. Claim(s) is/are allowed. Claim(s) 1-13 is/are rejected. Claim(s) is/are objected to.						
Applicati	on Papers						
9)	The specification is objected to by the Examine	er.					
10)	10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
11)	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority u	ınder 35 U.S.C. § 119						
12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ☐ All b) ☐ Some * c) ☐ None of: 1. ☐ Certified copies of the priority documents have been received. 2. ☐ Certified copies of the priority documents have been received in Application No 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.							
Attachmen	t(s)						
1) Notic 2) Notic 3) Inform	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date 7/7/03.	4) Interview Summa Paper No(s)/Mail 5) Notice of Informal 6) Other:					

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DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) The invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- (b) The invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1-2 are rejected under 35 U.S.C. 102(b) as being anticipated by Tateishi (U.S. Patent # 5,912,552).

Tateishi discloses claimed invention a DC-DC converter (figure 1-5 and 7-8), including a semiconductor switch device (figure 5, item Q1 and Q2), a means for a first feedback and a second feedback (figure 5, item first and second feedback signal), a control mode, a pulse width modulation control and a pulse frequency modulation (column 5, line 20-55).

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

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- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 3-13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kanouda et al. (U.S. Patent # 6,489,756) in combination with Katayama (U.S. Patent # 6,469,483).

Kanouda et al. discloses claimed invention a dc-dc converter (figure 4), including voltage regulating switching device (figure 4, item 8a and 8b), an amplifying means (figure 4, item 73), a pulse width modulation and triangular wave signal (figure 4, item 93 and 91), a selection means (figure 4, item 12a and 12b), an amplifying means (figure 4, item 7). Kanouda et al. does not disclose the utilization of the technique for an analog amplifier circuit. Katayama teaches the utilization of the similar technique for an analog amplifier (figure 1). It would have been obvious one having an ordinary skill in the art at the time the invention was made to modify Kanouda et al.'s DC-DC converter circuit by utilizing the technique taught by Katayama for the purpose of increasing efficiency of the converter.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Rajnikant B. Patel whose telephone number is 571-272-2082. The examiner can normally be reached on 6.30-5.00; m-f.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Sherry can be reached on 571-272-2084. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Rajnikant B Patel Primary Examiner Art Unit 2838
